

EMERGING AND RE-EMERGING INFECTIOUS DISEASES		
Tennessee Science Curriculum Standards– Biology		
Activity	Standard	Learning Expectation
3, 4	1.4	Analyze cell processes.
3	4.4	Apply the principles of Mendelian inheritance to make predictions about offspring.
3	4.6	Investigate the causes and effects of mutations.
2, 3, 4	4.8	Investigate the scientific and ethical ramifications of genetic engineering, recombinant DNA, selective breeding, hybridization, cell and tissue culturing, transgenic animals, and DNA fingerprinting.
2, 3, 4	6.2	Investigate how mutation, natural selection, and adaptation impact the emergence of new species.
Tennessee Science Curriculum Standards– Anatomy and Physiology		
Activity	Standard	Learning Expectation
3	1.2	Investigate the structure of the major body systems and relate the functions.
2, 3, 4	3.8	Analyze diseases as related to each system.
Tennessee Mathematics Curriculum Standards – Algebra I		
Activity	Standard	Learning Expectation
3, 4	1.2	Demonstrate an understanding of the relative size of rational and irrational numbers.
4	1.7	Use real numbers to represent real-world applications (e.g., slope, rate of change, probability, and proportionality).
3, 4, 5	1.9	Select and apply an appropriate method (i.e., mental mathematics, paper and pencil, or technology) for computing with real numbers, and evaluate the reasonableness of results.
4	2.6	Apply and interpret rates of change from graphical and numerical data.
4	2.7	Analyze graphs to describe the behavior of functions.
4	2.10	Interpret graphs that depict real-world phenomena.
4	2.11	Model real-world phenomena using functions and graphs.

TENNESSEE ALIGNMENT FOR NIH SUPPLEMENT EMERGING AND RE-EMERGING INFECTIOUS DISEASES

2, 3, 4, 5	5.4	Choose, construct, and analyze appropriate graphical representations for a data set.
Tennessee English/Language Arts Curriculum Standards – English I		
Activity	Standard	Learning Expectation
All activities	2.1.B	Distinguish fact from opinion in a passage or writing sample.
All activities	2.2.A	Draw inferences from selected passages.
All activities	2.2.B	Determine the meaning of a word in context.
All activities	2.2.F	Discern an implied main idea from a passage.
2, 3, 4, 5	3.1.A	Draw an inference from a non-print medium.
3, 4, 5	3.2.A	Select the type of conflict represented in a non-print medium.
5	3.2.B	Determine which statement presents an opposing view from those stated on a web page.
2, 3, 4, 5	4.2.A	Determine the appropriate preparation (e.g., length and timing, rate of speech, visual aids, diction) for an oral presentation to a specified audience or a special interest group.
Tennessee Health Lifetime Wellness Standards – Grades 9 - 12		
Activity	Standard	Learning Expectation
1, 2, 3, 4	1.1	Differentiate between communicable and non-communicable diseases.
2, 3, 4	1.2	Determine heredity, environmental, and lifestyle factors that place the student at risk for disease.
1, 2, 3, 4	1.3	Describe different types of pathogens and how they affect health.
1, 2, 3, 4	1.4	Explain transmission, prevention, warning signs, and treatment of communicable diseases.
2, 3, 4, 5	1.6	Identify appropriate community agencies providing resources for disease information and support.
4, 5	4.11	Identify resources and facilities in the community that relate to physical fitness and wellness.